

Claims

1. Piston-type accumulator with a separating piston (24) which is axially displaceable within the accumulator housing (10) and which separates two spaces within the accumulator housing (10) from each other, especially the gas side (22) from the fluid side (20) of the accumulator, characterized in that the separating piston (24) consists largely or completely of a plastic material.
2. The piston-type accumulator as claimed in claim 1, wherein at least parts of the interior of the separating piston (24) consist of an injection molding or are obtained by an extrusion process, and wherein toward the outside at least partially a reinforcement of plastic fibers or a plastic membrane is applied.
3. The piston-type accumulator as claimed in claim 2, wherein the separating piston (24) consists of glass fiber-reinforced polyaryl amide.
4. The piston-type accumulator as claimed in one of claims 1 to 3, wherein the separating piston (24) borders a cavity (28) which by preference is open in the direction of the gas side (22) of the accumulator housing (10).
5. The piston-type accumulator as claimed in claim 4, wherein within the cavity (28) there are stiffening crosspieces (30) which, configured diametrically to the longitudinal axis of the accumulator housing (10), extend from this longitudinal axis to the cylindrical inside wall (32) of the separating piston (24) which laterally borders the cavity (28).

6. The piston-type accumulator as claimed in claim 5, wherein the ends of the stiffening crosspieces (30) facing away from the inside wall (32) end in a cylindrical hollow receiving ring (34) within the separating piston (24).
7. The piston-type accumulator as claimed in claim 5 or 6, wherein the stiffening crosspieces (30) are rectangular in cross section and extend over the entire height of the cavity (28) within the separating piston.
8. The piston-type accumulator as claimed in one of claims 1 to 7, wherein the separating piston (24) on the outer circumferential side has groove-like recesses (42, 44, 46) which serve the purpose of holding guide strips and/or seals (48).